A putative church at Aqaba:  
A Space Syntax analysis

David L. Chatford Clark  
University of Surrey Roehampton, UK

Abstract
There are various theories about the origins of Christian religious architecture. Evolution in ecclesiastical buildings respects regional diversity in architectural and liturgical patterns. The mud-brick structure at modern Aqaba, Jordan (ancient Roman Aila) is such an example. Its architecture and artifacts, matched with liturgical textual traditions, suggest a transitional pre-Constantinian church. Space Syntax Analysis affirms the hypothesis of an ecclesiastical structure, and presents a piece of positive evidence to the jigsaw of archaeological investigation. This presentation examines these liturgical sources, architectural and artifactual evidence, and spatial configurations for the putative church structure.

The mud-brick structure was built on select Nabataean foundations in the mid- to late third century. Its placement in the urban environment of Aila, eastward orientation, overall spatial configuration, artifacts (glass oil lamp fragments, altar offering table, etc.), and a possible burial cut lend credence to its identification as a church. The complex underwent three distinct phases, possibly beginning as early as the mid-third century. The structure was expanded ca. 290, coincident with the arrival of the Roman Tenth Legion. A further expansion, perhaps ca. 325, added a possible baptistery and apsidal modifications. The building’s destruction in the late fourth century, perhaps as a result of the earthquake of May 19, 363, is securely dated by numerous coins of Constantius II and imported African Red Slip pottery. The Christian community probably relocated to a new location within the new Byzantine city wall erected shortly afterwards near the old site.

This mud-brick structure could be a significant example of the evolving Christian community’s architecture bracketing the pre- and post-Constantinian periods.